

Carlsbad Fish and Wildlife Office Tribal Coordination Meeting

September 29, 2017

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Agenda

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9:00- Welcome

9:10- CFWO Tribal liaison: topics of interest

- New USFWS regional Tribal liaison, Richard Adkins
- Recent and pending listing actions: San Diego County
- Invasive species updates: shot hole borers and stinknet
- “Earth Day” events: Intertribal event video, USFWS participation
- Partners for Fish and Wildlife grant opportunity
- Climate change planning tool: California Basin Characterization Model

9:40- Migratory Birds: Eagle Act Update (Thomas Leeman)

10:10- break

10:20- Hermes copper butterfly: ecology, distribution, and potential occurrence on reservations

10:50- Local college partnerships for conservation: interns, traditional ecological knowledge, Native American science, and western wildlife ecology

11:10- Palm Springs office burrowing owl project

11:15- Wrap-up, topics for next meeting?

11:30- End

Tribal Liaison: Topics of interest in brief

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- Recent and pending listing actions: San Diego County
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- Partners for Fish and Wildlife grant opportunity
- Climate change planning tool: California Basin Characterization Model

Richard Adkins Native American Liaison

U.S. Fish and Wildlife Service

California and Nevada Region (Region 8)

California, Nevada and Klamath Basin

(916) 532-5327

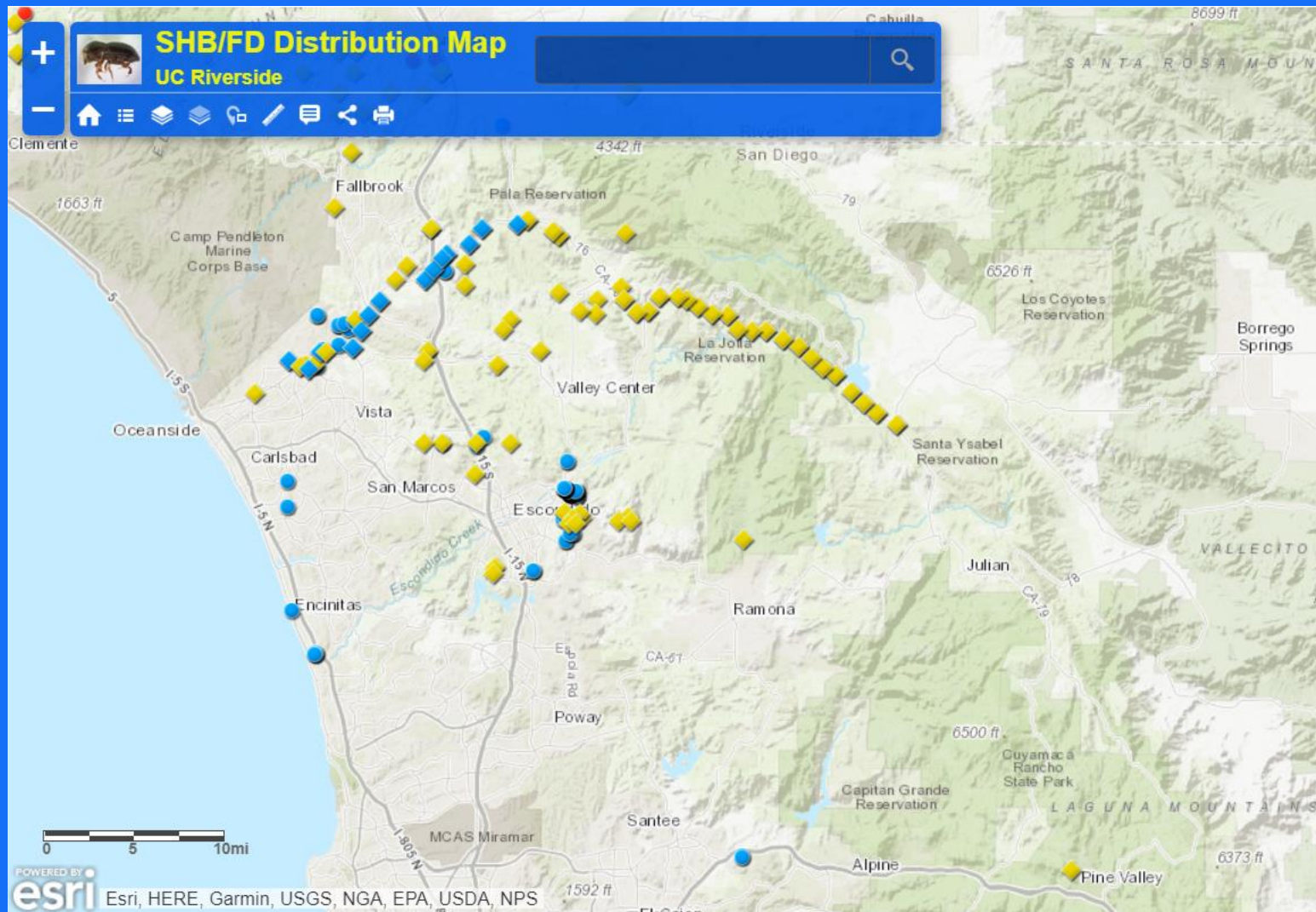
Richard_Adkins@fws.gov

**2800 Cottage Way
Sacramento, CA 95825**

Carlsbad Fish and Wildlife Office: Recent and Pending Listing Actions San Diego County

Species	Listing Action	Publication Date	Citation
California spotted owl	Substantial 90-day petition finding 12-month listing status review underway	September 18, 2015 Expected FY 2019	80 FR 56423
foothill yellow-legged frog	Substantial 90-day petition finding 12-month listing status review underway	July 1, 2015 Expected FY 2020	80 FR 37568
Hermes copper butterfly	Warranted but precluded 12-month petition finding Proposed listing / critical habitat rule underway	April 14, 2011 Expected FY 2018	76 FR 20918
Panamint alligator lizard	Substantial 90-day petition finding 12-month listing status review underway	September 18, 2015 Expected FY 2018	80 FR 56423
southwestern willow flycatcher	Substantial 90-day delisting petition finding 12-month delisting status review underway	March 16, 2016 Expected FY 2017	78 FR 344
southern rubber boa	Substantial 90-day petition finding 12-month listing status review underway	September 18, 2015 Expected FY 2019	80 FR 56423
tricolored blackbird	Substantial 90-day petition finding 12-month listing status review underway State of California currently evaluating for listing	September 18, 2015 Expected FY 2018	80 FR 56423
western pond turtle	Substantial 90-day petition finding 12-month listing status review underway	April 12, 2015 Expected FY 2020	80 FR 19259
western spadefoot toad	Substantial 90-day petition finding 12-month listing status review underway	July 1, 2015 Expected FY 2020	80 FR 37568
monarch butterfly	Substantial 90-day petition finding 12-month listing status review underway	December 31, 2014 Date Uncertain	79 FR 78775

Invasive Species Update: shot hole borer



Predicted to kill 38 % of trees in southern California

UCCE Plant Pathology Specialist
Akif Eskalen:

"If we cannot control the shot hole borer, it will kill all the sycamores in California. And when they're done with sycamores, they'll move to other trees."

www.pshb.org

Invasive Species Update: stinknet

Globe Chamomile (*Oncosiphon piluliferum*)



- Annual plant from South Africa
- Escaped from botanical gardens in Arizona
- Spread across desert, invades all habitats
- Invaded San Dieguito watershed starting in 2009

Lake Perris Recreation Area has been taken over by stinknet. Stephens' kangaroo rats are reportedly underweight from eating the seeds



Tribal Earth Day Events 2017

- Intertribal (La Jolla Band of Luiseño Indians, with Los Coyotes, Pala, Pauma, Pechanga, and San Pasqual Tribes)
- Los Coyotes Band of Cahuilla and Cupeño Indians (including overnight camp)
- Campo Kumeyaay Nation
- Lipay Nation of Santa Ysabel



Intertribal Earth Day

on the lands of the
La Jolla Band of Luiseño Indians

YouTube video
(not yet public)

Partners for Fish and Wildlife

U.S. Fish & Wildlife Service



Partners for Fish and Wildlife Program

The Partners Program **provides technical and financial assistance to private landowners and Tribes** who are willing to work with us and other partners on a voluntary basis to help meet the habitat needs of migratory birds, inter-jurisdictional fish, Federally-listed endangered, threatened or other declining or imperiled species.

The Partners Program **can assist with projects in all habitat types** which conserve or restore native vegetation, hydrology, and soils associated with imperiled ecosystems such as oak woodlands, native grasslands, marshes, ponds, rivers and streams, or otherwise provide an important habitat requisite for a rare, declining or protected species.

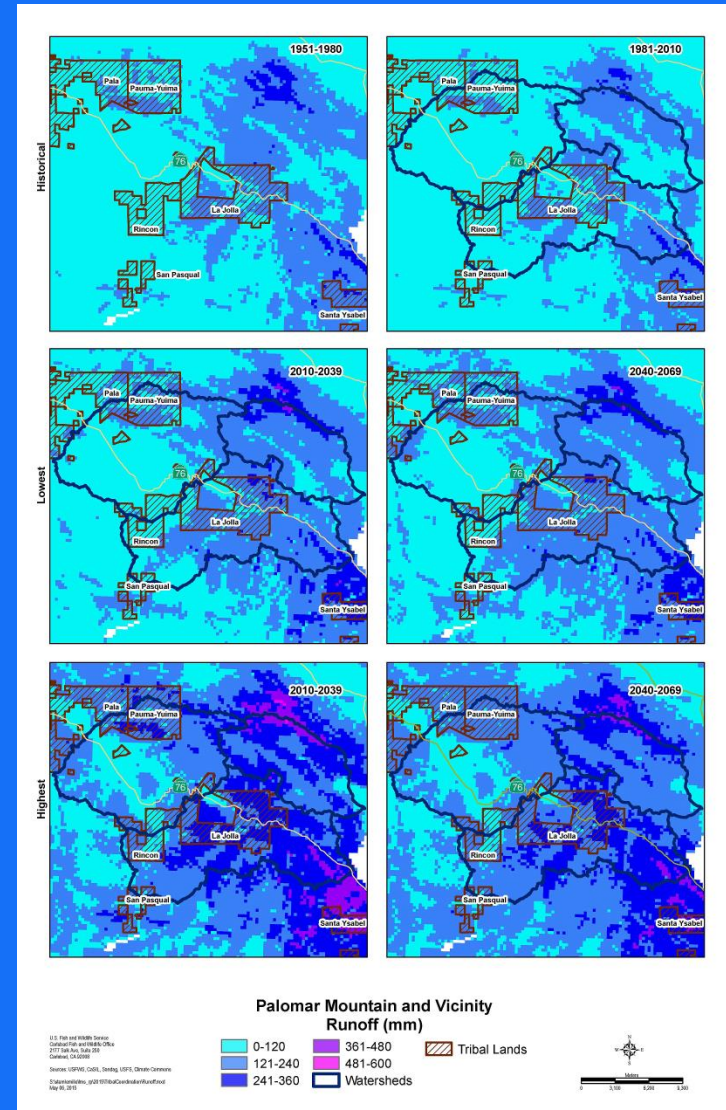
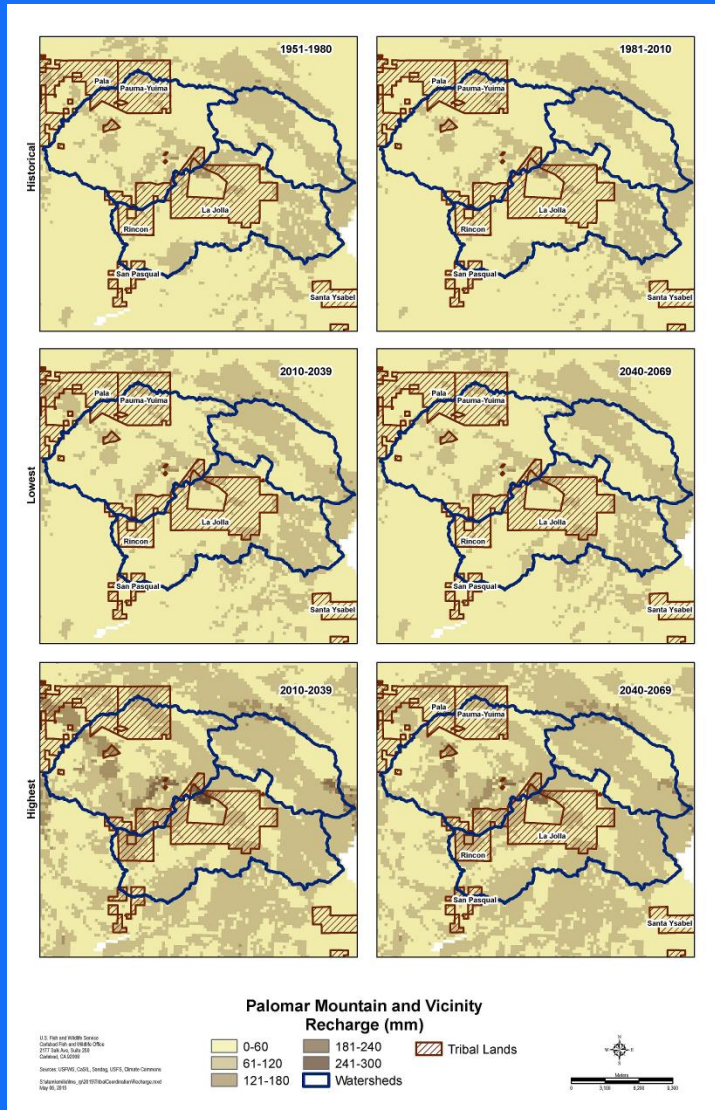
The Partners Program's **locally-based field biologists** work one-on-one with landowners and other partners to plan, implement, and monitor their projects. Partners Program field staff help landowners find other sources of funding and help them through the permitting process, as necessary. This personal attention and follow-through is a significant strength of the Program that has led to national recognition and wide support.

Funding for
restoration
and native
landscaping!

For more info contact:

Jonathan Snapp-Cook
Jonathan_snapp-cook@fws.gov
Partners for Fish and Wildlife Program
Carlsbad Fish and Wildlife Office
2177 Salk Avenue, Suite 250
Carlsbad, CA 92008
(760) 431-9440 x 233

Climate change planning tool: California Basin Characterization Model



Eagle Regulations Update

Thomas Leeman

Deputy Chief, Migratory Birds
Pacific Southwest Region



Hermes copper butterfly: SSA

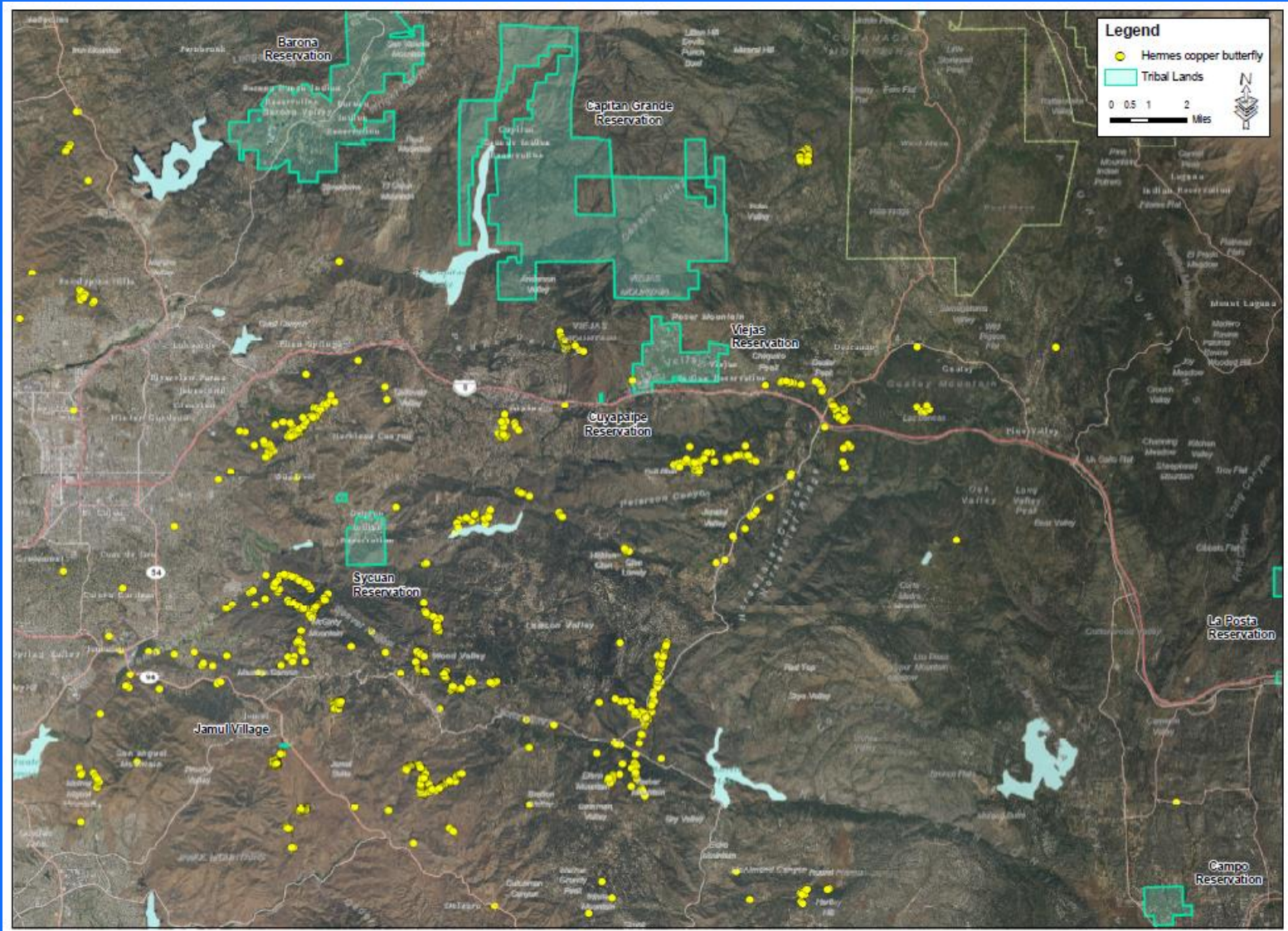
Species Status Assessment for the
Hermes copper butterfly
(*Lycaena* [*Hermelycaena*] *hermes*)
Version 1.0



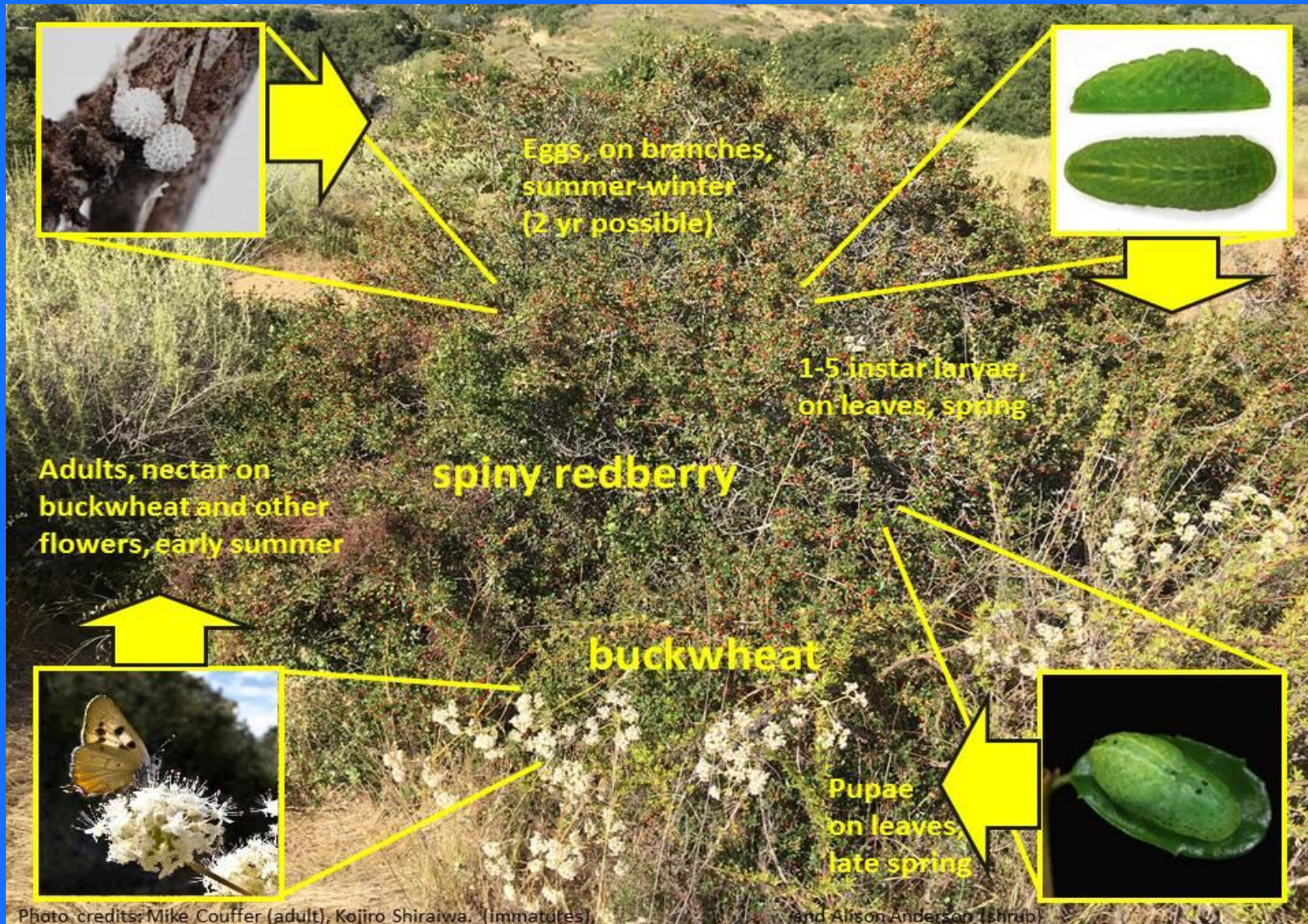
Hermes copper butterfly. Photo credit Mike Couffer (used with permission).

June 2017
U.S. Fish and Wildlife Service
Region 8
Carlsbad, CA

Hermes copper butterfly: distribution



Hermes copper butterfly: life cycle



Hermes copper butterfly: host

Spiny redberry (*Rhamnus crocea*)



Hermes copper butterfly: threats

- “Mega” wildfires
- Drought
- Development
- Climate change



Hermes copper butterfly

Questions?

TEK and Native Science:

What I've learned as liaison and what we are doing about it

“Native American science is most akin to what Western science calls environmental science or ecology. And while Native people don't have a particular word for either of those Western terms, they certainly have an understanding of ...these disciplines... at the individual and communal levels.”

Gregory Cajete (Native Science: Natural Laws of Interdependence)

“Perhaps most urgently, there is a need for all stakeholders to work together, share knowledge and perspectives, and use every possible tool at our disposal to combat the devastating ecological changes wrought by nonnative species invasion, climate change, and rigid thought.”

Santa Ysabel 2017 Tribal Wildlife Grant proposal

Student Internships



California State University
SAN MARCOS

College of Humanities,
Arts, Behavioral &
Social Sciences

California Indian Culture and Sovereignty Center | California State University San Marcos | 333 S. Twin Oaks Valley Road | San Marcos, CA 92096-0001

Tel: 760.750.3535 Fax: 626.355.1638 jproudfi@csusm.edu www.csusm.edu/air



1140 West Mission Road, San Marcos, California 92069-1487 • (760) 744-1150 • www.palomar.edu

American Indian Studies Department

Joi Lin Blake, Ed. D.
Superintendent/President

September 26, 2017

Thank you for the opportunity to support the Santa Ysabel Tribal Wildlife Grant. This collaboration will allow student interns from California State University San Marcos to work directly with tribal elders and biologists to share traditional knowledge and current perspectives as we seek to understand the future ecological determinates in the region.

As the Director of the California Indian Culture and Sovereignty Center (CICSC) at CSU San Marcos and Department Chair of American Indian Studies, I feel the proposed program and grant would be an ideal partner with our programs, students, staff and faculty in meeting our mission of the CICSC.

community service relationships between the faculty, staff, and students of CSU San Marcos and members of Tribal communities for the purpose of developing and conducting research projects that support the maintenance of sovereignty and culture within those communities. Serving all tribes and American Indian and Alaska Native people in California, the CICSC's core values are based on traditional worldviews shared by many Tribal communities:

- Responsibility: to support political and economic wellness, media and film, language preservation, and
- Reciprocity: to reinforce collaborative research methods;
- Respect: to champion sovereignty and cultural practices;
- Relationships: to create and sustain communication

This project has far-reaching effects for our region and outside the classroom is a proven educational technique for increasing their interest and commitment to post-secondary education.

We look forward to working with you on a successful project.

Sincerely,

Joely Proudfit, Ph.D., Chair, American Indian Studies
Director, California Indian Culture & Sovereignty Center

✓ Sees
✓ Pittman
nmental Officers
lation of Santa Ysabel
ox 130 Schoolhouse Canyon Rd.
sabel, CA 92070

tribal Wildlife Grants Program
nited States Fish and Wildlife Service

telody and Andrew,

portunity to write a letter of support for your project on identifying invasive species, ing insect species to establish a reference base, as well as the gathering of oral narratives with video documentation on the historical landscape is an additional welcome to the cultural base of your reservation and the surrounding areas.

The American Indian Studies (AIS) Department at Palomar College welcomes the possibility to nurture and support an environmental and conservation collaborative comprising faculty, staff, and students of Palomar College and local tribes including Santa Ysabel.

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Sincerely,

Patricia A. Dixon

Patricia A. Dixon,
Department Chair
American Indian Studies/American Studies
Palomar College
1140 W. Mission Rd.
San Marcos, California 92069

cc: AIS dept. files

The California State University

Bakersfield | Channel Islands | Chico | Dominguez Hills | East Bay | Fresno | Fullerton | Humboldt | Long Beach | Los Angeles | Maritime Academy
Monterey Bay | Northridge | Pomona | Sacramento | San Bernardino | San Diego | San Francisco | San Jose | San Luis Obispo | San Marcos | Sonoma | Stanislaus

Educational Institution Partnerships

- What do you think?
- Is anyone already doing something like this?
- Who is interested in building on it?

Palm Springs Fish and Wildlife Office Burrowing Owl Project



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